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1. #include <stdio.h>
2. #include <stdlib.h>
3. int main()
4. {
5.     int i, j, k, a, n;
6.     printf("Enter the size of the array: \n");
7.     scanf("%d", &n);
8.     int array1[n][n], array2[n][n], array3[n*n];
9.     for (i = 0; i < n * n; i++)
10.         array3[i]=rand()%100;
11.     for (i = 0; i < n * n; i++)
12.         printf("%d ", array3[i]);
13.     int o = 0;
14.     for (i = 0; i < n; i++)
15.         for (j = 0; j < n; j++)
16.             array1[i][j] = array3[o++];
17.
18.     printf("\nThe given 2D array is \n");
19.     for (i = 0; i < n; i++)
20.     {
21.         for (j = 0; j < n; j++)
22.         {
23.             printf(" %d", array1[i][j]);
24.         }
25.         printf("\n");
26.     }
27.
28.     printf("After arranging the columns in increasing order \n");
29.
30.     for (i = 0; i < n; i++)
31.     {
32.         for (j = 0; j < n; j++)
33.         {
34.             for (k = i + 1; k < n; k++)
35.             {
36.                 if (array2[i][j] > array2[k][j])
37.                 {
38.                     a = array2[i][j];
39.                     array2[i][j] = array2[k][j];
40.                     array2[k][j] = a;
41.                 }
42.             }
43.         }
44.     }
45.
46.     for (i = 0; i < n; i++)
47.     {
48.         for (j = 0; j < n; j++)
49.         {
50.             printf("%d ", array2[i][j]);

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51.     }  
52.     printf("\n");  
53. }  
54. }
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